

IES INDOOR REPORT**PHOTOMETRIC FILENAME : SP-00629_3 ~ C1216XT-40LXXK-MDEX-TCY-GLXXMW.IES****DESCRIPTION INFORMATION (From Photometric File)**

IESNA:LM-63-2002
[TEST] SP-00629_3
[TESTLAB] VLS-245-981
[MANUFAC] Spectrum Lighting
[ISSUE DATE] 9/20/2017
[UPDATE] 3/9/2018
[LUMCAT] C1216XT-30L-xxK-MD-EX-TCY-GL
[LUMINAIRE] Nom. 12" Diam. x 16" H. Accent Biaxial Adjustable Downlight Cylinder
[OTHER] Internal Reflector, Medium Beam
[OTHER] Clear Glass Lens, Flush with Lower Trim
[OTHER] 21.1 Degree Beam Angle
[OTHER] Aimed at 0 Degrees
[LAMPCAT] N/A, 19mm LES
[LAMP] N/A, 83 CRI
[OTHER] Total Luminaire Watts is approximate
[OTHER] LEDXT lumen output is the same for all available CCT's
[OTHER] This report prepared by Spectrum Lighting, scaled from 40L

CHARACTERISTICS

Lumens Per Lamp	N.A. (absolute)
Total Lamp Lumens	N.A. (absolute)
Luminaire Lumens	3630
Total Luminaire Efficiency	N.A.
Luminaire Efficacy Rating (LER)	96
Total Luminaire Watts	37.9
Ballast Factor	1.00
CIE Type	Direct
Spacing Criterion (0-180)	0.40
Spacing Criterion (90-270)	0.38
Spacing Criterion (Diagonal)	0.38
Basic Luminous Shape	Circular
Luminous Length (0-180)	0.44 ft (Diameter)
Luminous Width (90-270)	0.44 ft (Diameter)
Luminous Height	0.00 ft

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Angle In Degrees	Average 0-Deg	Average 45-Deg	Average 90-Deg
45	33689	36674	33817
55	6218	6190	5551
65	4550	4006	3958
75	6065	6832	6173
85	5428	6240	6029

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CANDELA TABULATION

	<u>0.0</u>	<u>22.5</u>	<u>45.0</u>	<u>67.5</u>	<u>90.0</u>	<u>112.5</u>	<u>135.0</u>	<u>157.5</u>	<u>180.0</u>	<u>202.5</u>
0	13014.9061	3014.9061	3014.9061	3014.9061	3014.9061	3014.9061	3014.9061	3014.9061	3014.9061	3014.9061
5	11607.3881	1886.9781	1698.1691	1774.8111	11423.5801	1105.5201	1082.3011	10587.6501	10657.5791	10270.163
10	7473.980	7884.216	7591.529	7721.705	7209.067	6798.118	6776.824	6201.864	6289.969	5905.939
15	3622.037	3917.725	3720.646	3815.373	3468.303	3233.911	3212.839	2892.650	2962.382	2759.696
20	1792.441	1914.074	1842.031	1891.754	1754.722	1686.684	1679.429	1584.283	1610.578	1552.892
25	1348.773	1372.376	1354.622	1361.137	1331.011	1309.548	1310.900	1294.501	1292.983	1286.277
30	1236.462	1245.716	1232.457	1230.022	1219.672	1209.253	1208.696	1200.186	1201.254	1196.998
35	1138.036	1160.327	1146.325	1152.960	1126.832	1113.627	1104.110	1065.177	1077.519	1034.473
40	811.001	870.601	847.930	868.677	811.469	755.148	742.803	664.332	660.345	597.321
45	339.897	377.851	370.006	371.772	341.182	297.124	292.833	251.045	247.441	217.511
50	103.069	118.131	110.627	116.240	95.844	94.954	95.766	82.253	90.095	80.819
55	50.891	50.740	50.658	50.986	45.432	51.488	50.560	45.163	50.571	43.569
60	30.796	35.279	31.072	33.285	33.686	40.141	39.092	38.138	39.447	39.856
65	27.437	26.017	24.154	25.536	23.869	35.195	36.549	37.092	34.728	34.996
70	25.242	21.657	22.964	23.270	24.398	34.758	40.080	40.009	35.667	38.586
75	22.397	21.533	25.231	24.702	22.796	36.463	40.094	39.835	39.696	42.253
80	17.222	20.840	19.571	20.211	20.550	36.101	36.174	36.999	41.849	38.321
85	6.750	8.252	7.760	7.639	7.497	22.803	26.044	22.102	23.109	24.546
90	2.137	0.756	2.515	0.654	2.916	12.688	5.296	16.406	5.667	14.502
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Vert. Horizontal Angles

	<u>225.0</u>	<u>247.5</u>	<u>270.0</u>	<u>292.5</u>	<u>315.0</u>	<u>337.5</u>	<u>360.0</u>
0	13014.9061	3014.9061	3014.9061	3014.9061	3014.9061	3014.9061	3014.9061
5	10482.2741	10260.9341	10607.8701	11050.2761	11115.0741	11616.0911	11607.388
10	6156.033	5931.072	6314.343	6793.051	6844.145	7501.052	7473.980
15	2903.253	2771.843	2965.067	3220.549	3238.919	3635.183	3622.037
20	1597.774	1550.402	1616.199	1680.189	1676.895	1801.785	1792.441
25	1293.956	1283.662	1303.651	1325.040	1324.850	1349.444	1348.773
30	1200.471	1195.857	1212.098	1225.968	1230.040	1240.712	1236.462
35	1056.313	1038.605	1098.984	1115.475	1115.511	1154.116	1138.036
40	626.669	610.627	665.402	725.984	737.735	821.478	811.001
45	232.304	219.569	227.553	276.407	284.731	334.554	339.897

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50	83.602	80.426	81.133	86.556	90.469	108.530	103.069
55	46.370	45.712	47.885	48.456	47.889	50.067	50.891
60	34.116	35.605	39.357	31.336	31.895	34.886	30.796
65	38.535	32.899	35.870	25.339	26.935	28.980	27.437
70	35.366	37.424	35.098	22.731	23.874	22.668	25.242
75	37.408	35.534	38.931	23.050	23.212	25.808	22.397
80	32.247	33.069	36.536	16.720	22.136	20.151	17.222
85	25.707	18.720	21.942	7.568	6.669	8.537	6.750
90	5.313	16.905	10.725	0.641	2.435	1.328	2.137
95	0.000	0.000	0.000	0.000	0.000	0.000	0.000
100	0.000	0.000	0.000	0.000	0.000	0.000	0.000
105	0.000	0.000	0.000	0.000	0.000	0.000	0.000
110	0.000	0.000	0.000	0.000	0.000	0.000	0.000
115	0.000	0.000	0.000	0.000	0.000	0.000	0.000
120	0.000	0.000	0.000	0.000	0.000	0.000	0.000
125	0.000	0.000	0.000	0.000	0.000	0.000	0.000
130	0.000	0.000	0.000	0.000	0.000	0.000	0.000
135	0.000	0.000	0.000	0.000	0.000	0.000	0.000
140	0.000	0.000	0.000	0.000	0.000	0.000	0.000
145	0.000	0.000	0.000	0.000	0.000	0.000	0.000
150	0.000	0.000	0.000	0.000	0.000	0.000	0.000
155	0.000	0.000	0.000	0.000	0.000	0.000	0.000
160	0.000	0.000	0.000	0.000	0.000	0.000	0.000
165	0.000	0.000	0.000	0.000	0.000	0.000	0.000
170	0.000	0.000	0.000	0.000	0.000	0.000	0.000
175	0.000	0.000	0.000	0.000	0.000	0.000	0.000
180	0.000	0.000	0.000	0.000	0.000	0.000	0.000

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Zone	Lumens	%Lamp	%Fixt
0-20	1938.33	N.A.	53.40
0-30	2576.78	N.A.	71.00
0-40	3226.79	N.A.	88.90
0-60	3546.64	N.A.	97.70
0-80	3610.15	N.A.	99.50
0-90	3627.87	N.A.	100.00
10-90	2699.04	N.A.	74.40
20-40	1288.46	N.A.	35.50
20-50	1557.7	N.A.	42.90
40-70	351.46	N.A.	9.70
60-80	63.52	N.A.	1.80
70-80	31.90	N.A.	0.90
80-90	17.72	N.A.	0.50
90-110	1.73	N.A.	0.00
90-120	1.73	N.A.	0.00
90-130	1.73	N.A.	0.00
90-150	1.73	N.A.	0.00
90-180	1.73	N.A.	0.00
110-180	0.00	N.A.	0.00
0-180	3629.6	N.A.	100.00

Total Luminaire Efficiency = N.A. %

ZONAL LUMEN SUMMARY

Zone	Lumens
0-10	928.84
10-20	1009.49
20-30	638.45
30-40	650.01
40-50	269.24
50-60	50.61
60-70	31.61
70-80	31.90
80-90	17.72
90-100	1.73
100-110	0.00
110-120	0.00
120-130	0.00
130-140	0.00
140-150	0.00
150-160	0.00
160-170	0.00
170-180	0.00

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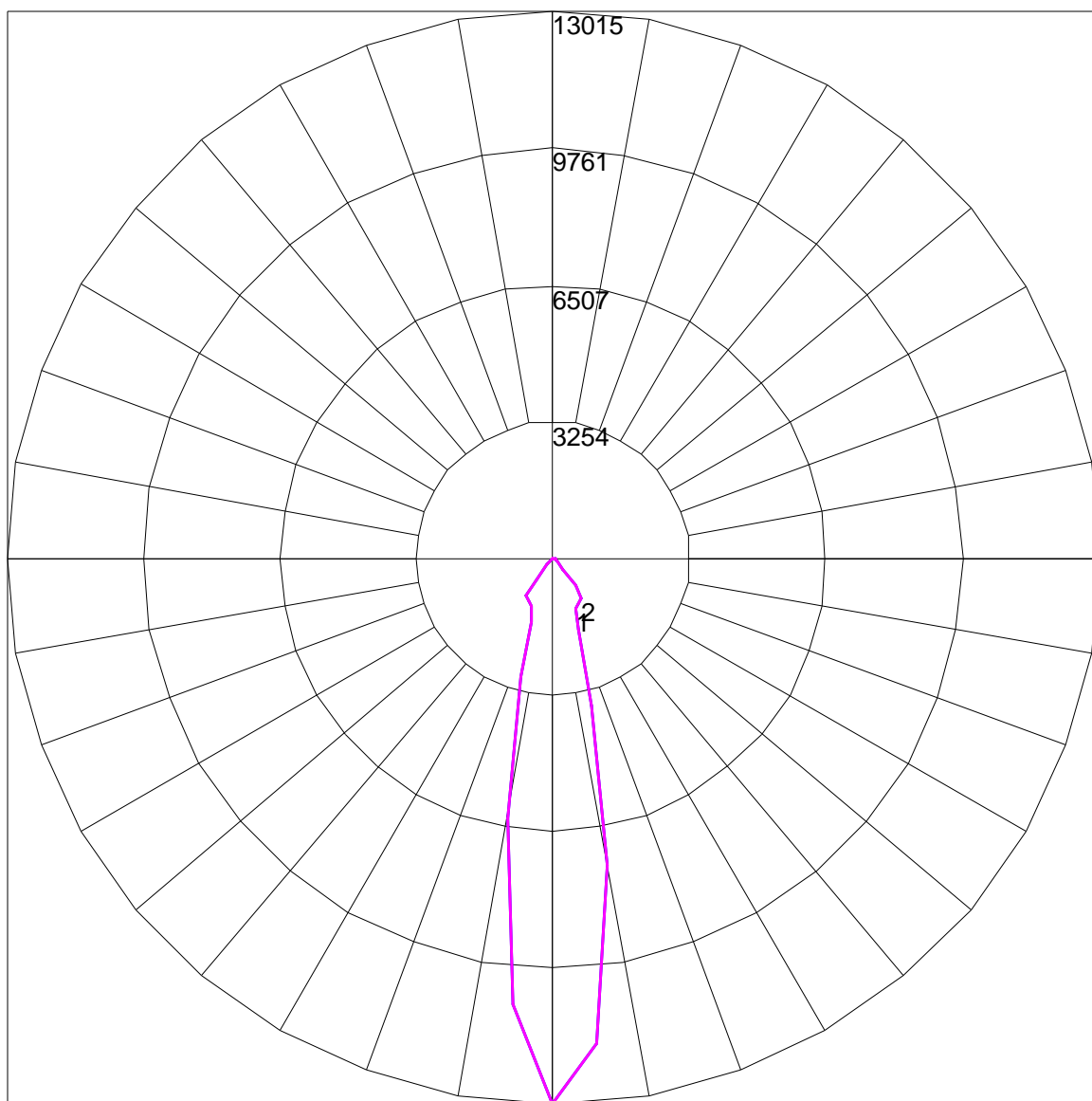
COEFFICIENTS OF UTILIZATION - ZONAL CAVITY METHOD

Effective Floor Cavity Reflectance 0.20

RC	80				70				50			30			10			0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	96	95	94
2	108	104	100	97	106	102	98	95	99	96	93	96	93	91	93	91	89	88
3	103	97	93	89	101	96	92	88	93	90	87	91	88	85	89	86	84	83
4	99	92	87	83	97	91	86	82	89	84	81	87	83	80	85	82	79	78
5	95	87	81	77	93	86	81	77	84	80	76	83	79	76	81	78	75	74
6	91	82	77	73	89	82	76	73	80	76	72	79	75	72	78	74	71	70
7	87	78	73	69	86	78	73	69	77	72	69	75	71	68	74	71	68	67
8	83	75	69	66	82	74	69	66	73	69	65	72	68	65	71	68	65	63
9	80	72	66	63	79	71	66	63	70	66	62	69	65	62	69	65	62	61
10	77	69	63	60	76	68	63	60	67	63	60	67	63	60	66	62	59	58

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POLAR GRAPH



Maximum Candela = 13014.906 Located At Horizontal Angle = 0, Vertical Angle = 0
1 - Vertical Plane Through Horizontal Angles (0 - 180) (Through Max. Cd.)
2 - Vertical Plane Through Horizontal Angles (0 - 180)